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TECHNICAL SERVICE BULLETIN #140

(This TSB is a conversion of TSD Informs 95TSI:07- originally issued on 7/17/95)

February 13, 1996

TO: All Qualified Service Organizations

FROM: John Gotzon

SUBJ: **New Auto/Man Valve Assembly**

Anesthesia machines are now shipping with a new style Auto/Man Valve Assembly. The operation of this valve is different than the prior Man/Auto Valve in that it does not incorporate a cone design to allow flow to the bellows or bag. The new design uses a plunger that has a "spring loaded" action preventing the valve to be set in the intermediate or "in between" position (colored red on the old assembly). The valve assembly's part number is #4112217-001 (P/N 4113303 as an Aftermarket Update Kit). There are parts to this valve assembly that are field serviceable; please see attached drawing and replacement procedure. Field serviceable parts are as follows:

ITEM	PART NUMBER	DESCRIPTION
1	1100561	"Breathing Bag" Label
2	1100563	"Vent Hose" Label
3	4104806	"Scavenger Hose" Label
4	4104839	Pop-Off Valve
5	4110792-070	Spacer-R Unthreaded x .032DL
6	4110792-071	Spacer-R Unthreaded x .007 TE
7	4111663-001	13/16 Diameter Hole Plug
8	4112613-001	5/16-13 Hexseal Nut
9	4112619-002	O-Ring #119 Silicon
10	4112629-001	O-Ring #120 (EPDM)
11	4112622-001	Swivel Bag Mount
12	4112914	NAD Logo Label

13	4112918	22 mm Connector w/Spanner
14	HW06023	Rnd Hd Sltd Scr 5/16 x 3-3/4 ss

Auto/Manual Selector Valve Parts Replacement Procedure

Bag Mount Removal/Replacement

1. Remove the APL valve from the Auto/Man selector valve.

2. Remove the cap inserted into the bottom of the tube connected to the bottom of the Auto/Man selector valve.

3. Using a 1/2 inch nut driver and a large blade screw driver, remove the nut that is attached to the screw retaining the bag mount to the assembly body.

4. Remove the screw from the bag mount. (The bag mount is threaded).

5. Carefully remove the bag mount from the housing. (There is a nylon washer under the screw, a glide ring at the connection of the bag mount to the housing, and an O-ring on the bag mount itself.

6. Before replacement of the bag mount, the following items shall be obtained.
   a. Breathing Bag Label P/N 1100561
   b. O-Ring P/N 4112629-001
   c. Glide Ring P/N 4110792-071
   d. Bag Mount P/N 4112622-001

7. Attach breathing bag label to bag mount as shown in Figure 1.

8. Slip O-Ring into place on the bag mount as shown.

9. Apply a minimal amount of Dow Corning High Vacuum Grease to the O-Ring.

10. Replace the existing glide ring in the assembly body.

11. Insert the bag mount into the assembly body.

12. Insert the screw with the spacer through the assembly body as shown in Figure 1.

13. Completely thread the screw into the bag mount assembly.

14. Making sure that there is no play in the bag mount assembly, thread the locking nut with the O-ring material facing toward the bag mount assembly onto the screw as shown in Figure 1.

15. Insert cap into bag mount as shown in Figure 1.

22 mm Hose Port Removal/Replacement

1. Using a spanner wrench, remove the hose port assembly P/N 4112918 by threading it out of the assembly body.

2. Remove the O-Ring P/N 4112619-002

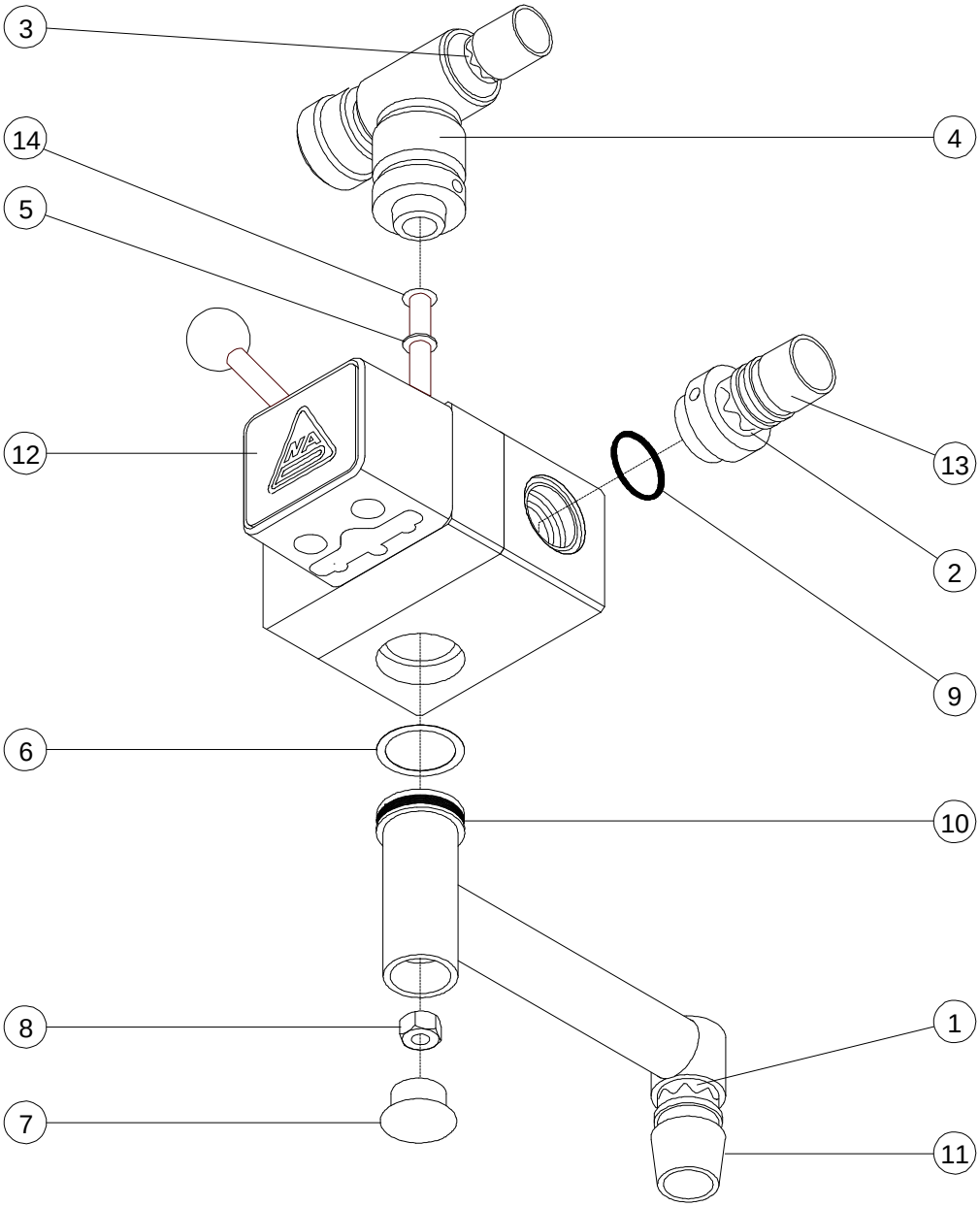
3. Before attaching the bag port to the anesthesia machine, the following must be obtained:

   a. Vent Hose Label P/N 1100563
   b. O-Ring P/N 4112619-002

4. Attach vent hose label to the bag port as shown in Figure 1.

5. Place O-Ring into assembly housing as shown in Figure 1.

6. Using a spanner wrench, thread bag port into the assembly housing as shown in Figure 1.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